



AUSTRALIAN BUREAU OF STATISTICS

CANBERRA

**LABOUR FORCE STATUS AND
EDUCATIONAL ATTAINMENT
AUSTRALIA**

FEBRUARY 1986

CATALOGUE NO. 6235.0

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**LABOUR FORCE STATUS AND EDUCATIONAL
ATTAINMENT, AUSTRALIA**

FEBRUARY 1986

IAN CASTLES

Australian Statistician

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(F)

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• Commonwealth of Australia 1986

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CONTENTS

<i>Table</i>	<i>Page</i>
. . Explanatory notes	1
. . Summary of findings	3
Civilian population aged 15 and over	
Educational attainment and sex—	
1. Labour force status, February 1979 to February 1986	6
2. Unemployment rate, average and median duration of unemployment, February 1979 to February 1986	7
3. Labour force status	8
4. Age	9
5. Family status	10
6. Main field of study, age and labour force status	11
Employed persons	
Educational attainment and sex—	
7. Industry	12
8. Occupation	13
9. Age	14
Unemployed persons	
10. Unemployment rate and unemployment/population ratio, age and educational attainment	15
11. Educational attainment and sex—	
11. Age	16
12. Duration of current period of unemployment	17
Persons not in the labour force	
Educational attainment—	
13. Main activity and whether in the labour force in the last 12 months	18
. . Additional tables	19
. . Technical note	20

EXPLANATORY NOTES

Introduction

The monthly Population Survey (which is described in *The Labour Force, Australia* (6203.0)) comprises the monthly labour force survey and supplementary topics. This publication contains some results of a supplementary survey run in association with the February 1986 labour force survey conducted throughout Australia.

2. Of the respondents to the labour force survey, those who fell within the scope of the supplementary survey were asked additional questions. This subset of respondents was asked about their highest educational qualifications. For persons with post-school qualifications, the information sought included field of study, and for those who did not complete their schooling, it included the age at which they left school.

Scope

3. The scope of this supplementary survey was the same as that used for the labour force survey (described in full in *The Labour Force, Australia* (6203.0)) except that it excluded students boarding at school, some patients in hospitals and sanatoria and inmates of jails, reformatories etc.

Definitions

4. *Persons with a post-school qualification* are those who have left school and who answered 'Yes' to the question: 'Since leaving school have you obtained a certificate, diploma, degree or any other qualification?'

5. *Classification of post-school qualifications.* Respondents indicate which one of the following groups best described their highest qualification:

- (a) *Degree:* a bachelor degree (including honours), a graduate or post-graduate diploma, masters degree or a doctorate;
- (b) *Trade; technical or other certificate:* completion of an approved trade/technician apprenticeship or training course, other certificate or diploma in secretarial or business studies, administration, teaching, nursing, etc.;
- (c) *Other:* completion of other post-secondary education, e.g. adult education, preparatory/bridging course or hobby course.

6. *Classification of field of study.* Respondents with a degree; trade; technical or other certificate qualification (i.e. (a) or (b) in paragraph 5) indicated the main field of study for their highest qualification (see Table 6).

7. *Highest level of secondary school available* refers to the highest level of secondary schooling (or equivalent) offered by the education system at the time the respondent left school.

8. *Still at school.* Current school attendance is recorded only for persons aged fifteen to twenty years.

9. The *unemployment/population ratio* for any group is the number of unemployed persons expressed as a percentage of the civilian population in the same group.

10. Further definitions of labour force and demographic classifications appearing in this publication are given in *The Labour Force, Australia* (6203.0).

11. Unless otherwise stated, all characteristics referenced in this publication are as at the survey week.

Results of the survey

12. Due to differences in the method of estimation used in this supplementary survey and that used in the Labour Force Survey, there are some small variations between estimates in this publication and those in the February issue of *The Labour Force, Australia* (6203.0).

13. The estimates in this publication refer to information collected in the survey month and, due to seasonal factors, may not be representative of other months of the year.

14. Additional tables available but not included in this publication are listed on page 19. A preliminary publication (6240.0) containing a summary of the results of the survey was released on 25 June 1986.

15. Results of similar surveys, the first conducted in February 1979, have been given in previous issues of this publication.

Discontinuities in the series

16. Educational attainment of persons not in the labour force is not available for the February 1979, 1980 and 1981 surveys which only covered persons in the labour force.

Reliability of the estimates

17. Estimates in this publication are subject to two sources of error:

- (a) *sampling error:* since the estimates are based on information obtained from occupants of a sample of dwellings, they may differ from the figures that would have been produced if all dwellings had been included in the survey. More information on this topic is given in the Technical note;
- (b) *non-sampling error:* inaccuracies may occur because of imperfections in reporting by interviewers and respondents and errors made in the coding and processing of data. These inaccuracies

may occur in any enumeration, whether it be a full count or a sample. Every effort is made to reduce the non-sampling error to a minimum by careful design of questionnaires, intensive training and supervision of interviewers and efficient operating procedures.

Related publications

18. Other ABS publications which may be of interest include:

The Labour Force, Australia (6203.0)—issued monthly (\$1.20, \$2.10 incl. postage).

Transition from Education to Work, Australia, May 1986 Preliminary (6241.0)

19. Current publications produced by the ABS are listed in the *Catalogue of Publications, Australia* (1101.0). The ABS also issues, on Tuesdays and Fridays, a *Publications Advice* (1105.0) which lists publications to be released in the next few days. The Catalogue and Publications Advice are available from any ABS office.

Symbols and other usages

- * subject to sampling variability too high for most practical uses. See paragraph 17 above.
- n.e.c. not elsewhere classified
- . . not applicable
- r revised

20. Because figures have been rounded, discrepancies may occur between sums of the component items and totals.

Electronic services

21. VIATEL. Key *656# for selected current economic, social and demographic statistics.

AUSSTATS. Thousands of up-to-date time series are available on this ABS on-line service through CSIRONET.

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TELESTATS. This service provides foreign trade statistics tailored to users' requirements.

Further information is available on (062) 52 5404.

SUMMARY OF FINDINGS

Civilian Population, February 1982 - February 1986

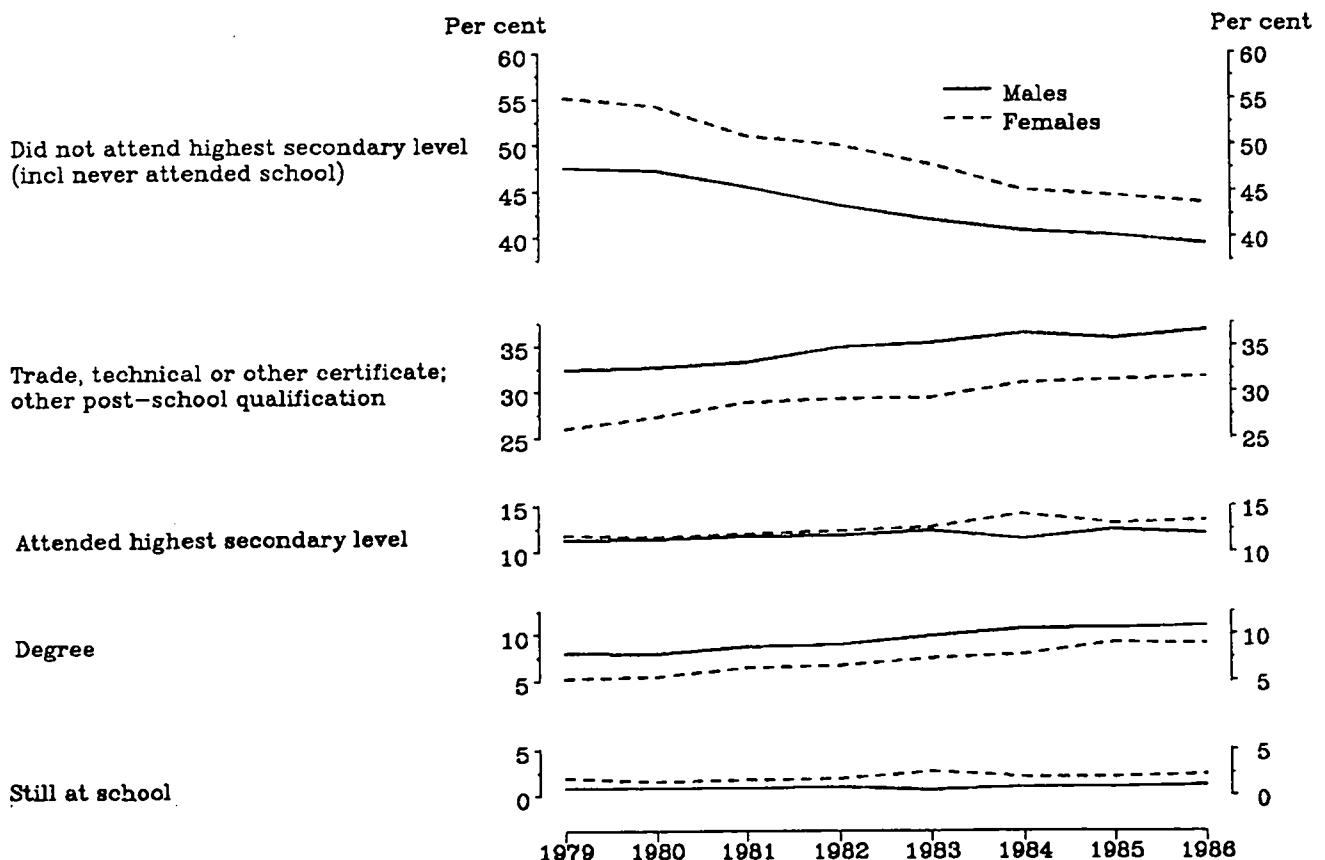
Educational levels of the civilian population have risen within the last five years. In 1982 32.0 per cent of the civilian population had a post-school qualification compared with 34.8 per cent of the population in February 1986. The proportion of males and females with a post-school qualification increased by similar amounts since February 1982, with males increasing from 38.4 per cent to 40.9 per cent in February 1986, and females from 25.8 in February 1982 to 28.9 per cent in 1986.

The proportion of the population without a post-school qualification decreased accordingly. Of these, the proportion who attended the highest level of secondary school available has increased from 16.9 per cent in February 1982 to 18.6 per cent in February 1986. Whilst this increase occurs for both males and females, a consistently larger proportion of males without a post-school qualification achieved the highest level of secondary school available than for females, 19.5 per cent of males and 14.9 per cent of females in 1982 and 21.2 per cent of males and 16.6 per cent of females in February 1986.

Employed Persons, February 1979 - February 1986

The trend towards more educational qualifications is most marked amongst the employed. As shown in diagram 1, the proportion of employed persons with a post-school qualification has increased. In particular, the proportion of females with a degree has increased from 5.2 per cent in 1979 to 9.0 per cent in February 1986. For both males and females the percentage of persons who did not attend the highest level of secondary school available, including those who had never attended school, has decreased from 47.5 per cent for males and 55.1 per cent for females in February 1979 to 39.3 per cent and 43.7 per cent respectively in February 1986.

DIAGRAM 1. EMPLOYED PERSONS: SELECTED EDUCATIONAL LEVELS ATTAINED
FEBRUARY 1979 TO FEBRUARY 1986
(Source of data: Table 1)

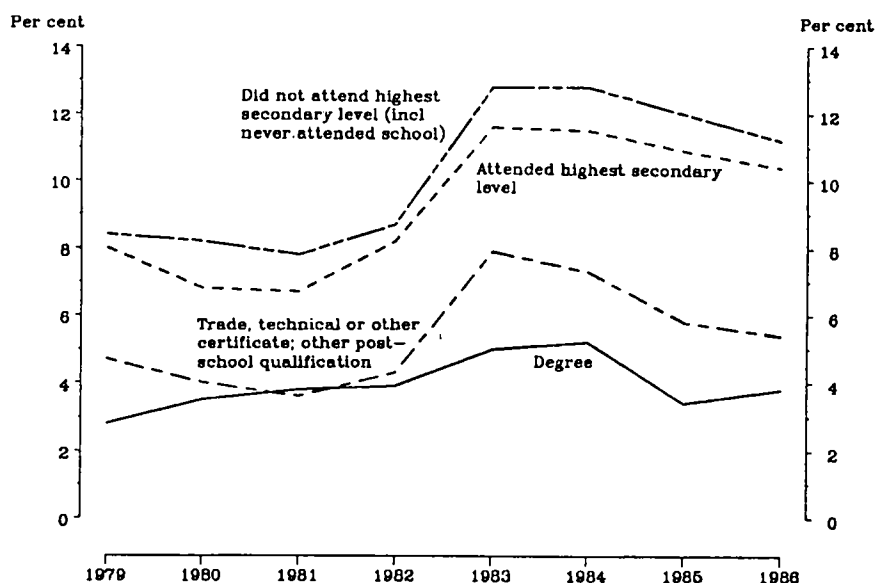


Unemployed Persons, February 1979 — February 1986

Unemployment rates demonstrate the value of higher educational qualifications in the labour market. While the unemployment rate for males has changed from 5.8 per cent in 1979 to 8.1 per cent in February 1986, 2.3 percentage points, the unemployment rate for males with post-school qualifications in February 1986 was 4.3 per cent, a difference of one percentage point from the 1979 figure. This compares with males without post-school qualifications who had not attended the highest level of secondary school available, who recorded a change from 7.3 per cent in 1979 to 11.2 per cent in February 1986, 3.9 percentage points. The unemployment rate for females with post-school qualifications remained lower than that of females without post-school qualifications over the seven year period.

As shown in diagram 2 below the unemployment rate during the last seven years has not been steady. During the 1982-1983 period there was an overall rise in unemployment rates. This rise was marked in all levels of educational attainment except for those persons with a degree, who had a relatively small rise. From 1983 to February 1986 there has been a gradual decline in unemployment rates, again the unemployment rate for persons with post-school qualifications decreasing at a faster rate than the unemployment rate for those without post-school qualifications.

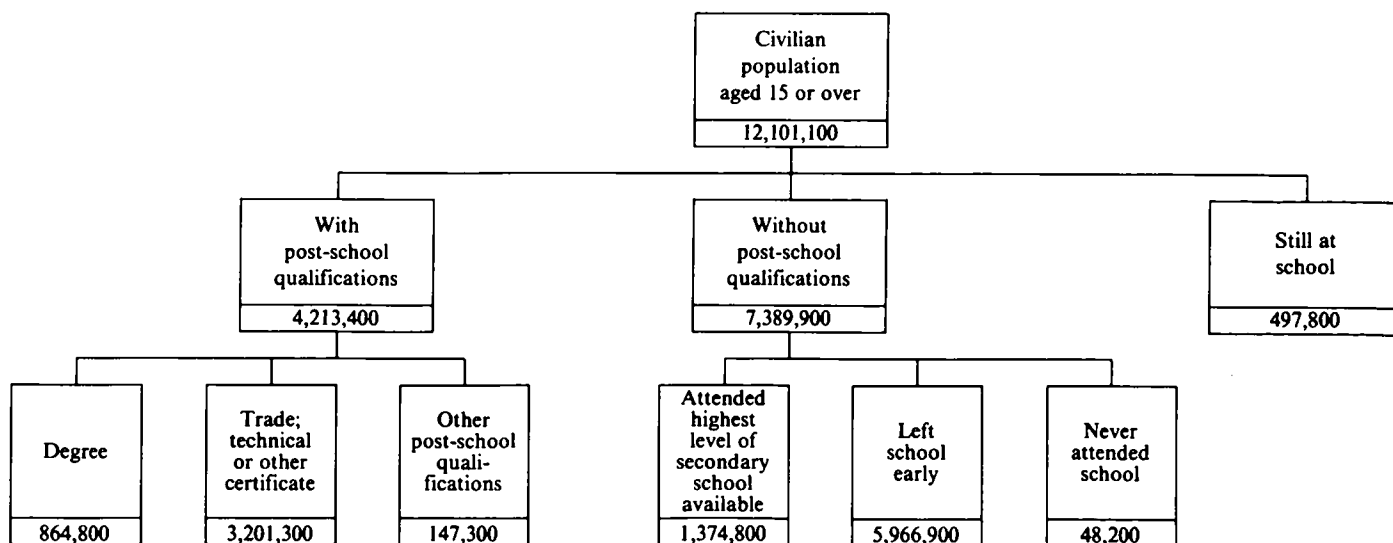
DIAGRAM 2. CIVILIAN POPULATION: EDUCATIONAL ATTAINMENT, UNEMPLOYMENT RATES
FEBRUARY 1979 TO FEBRUARY 1986
(Source of data: Table 2)



Civilian Population, February 1986

The civilian population aged 15 years and over was 12,101,100 as at February 1986. Of these 4,213,400 (34.8 per cent) had post-school qualifications, 7,389,900 (61.1 per cent) were without a post-school qualification, and the remainder (4.1 per cent) were still at school. Approximately one in every five persons with post-school qualifications had a degree, while one in every five persons without post-school qualifications had attended the highest level of secondary school available.

DIAGRAM 3. CIVILIAN POPULATION : EDUCATIONAL ATTAINMENT
(Source of Data : Table 3)



Labour force participation varies according to educational attainment. Persons with post-school qualifications had a higher participation rate (76.9 per cent) in February 1986 than those without post-school qualifications (55.7 per cent). This was particularly true for females. While there is a large difference in participation rates for females with different educational levels, the mode of employment is also of interest. Of employed females who had attained the educational level of degree only 23.1 per cent were employed on a part-time basis while of the employed females who did not attend the highest level of secondary school available 38.7 per cent worked on a part-time basis.

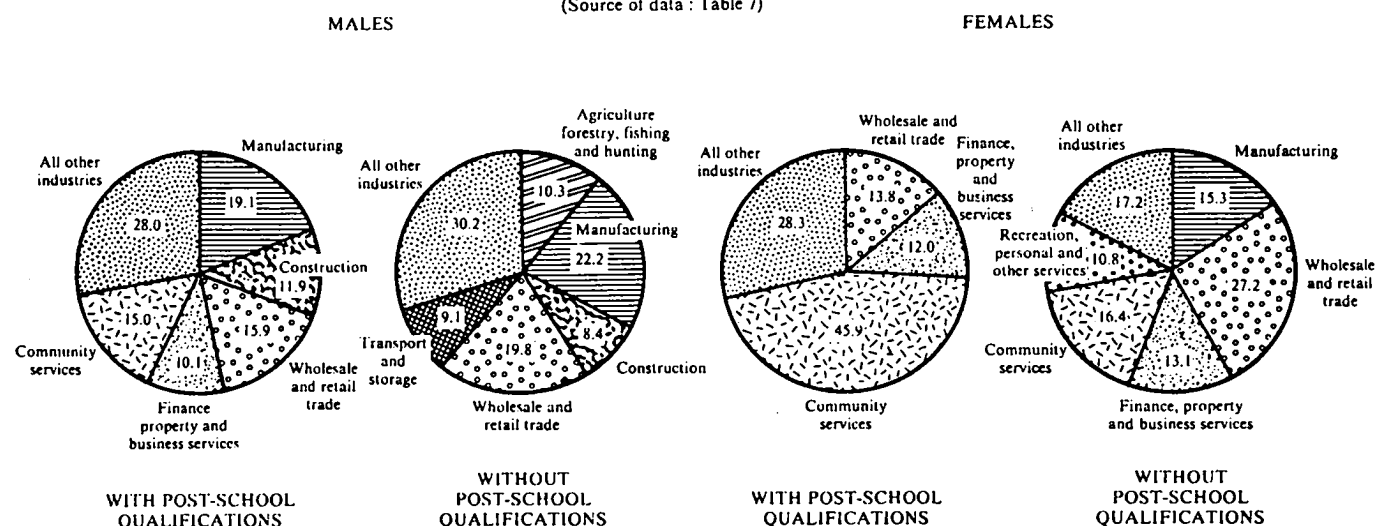
Most post-school fields of study of persons with post-school qualifications show an increase in participants across age groups. When comparing the age groups 25 to 34 years and 35 to 44 years the proportion of post-school qualified persons is larger for the younger age group. This trend is most obvious for females with a degree. In all age groups the largest proportion of females with a degree reported education or humanities as their main field of study. The proportion of females who reported science as their main field of study varied according to age group. 17.5 per cent for females aged 15 to 24 and 14.0 per cent for females aged 25 to 34, while only 9.4 per cent of females aged 35 to 44 and 8.3 per cent of females aged 45 years and over reported science.

Employed persons, February 1986

For employed persons, educational attainment varied according to industry and occupation. Although only 16.8 per cent of employed persons are employed in the Community Services industry, 46.0 per cent of employed persons with a degree are employed in this industry. While the Manufacturing industry and Wholesale and Retail Trade industry employed the largest proportions of persons (17.1 per cent and 20.1 per cent respectively) only 7.5 per cent and 8.2 per cent of all persons with degrees were employed in these industries. Industry of employment varied markedly according to sex and educational attainment.

DIAGRAM 4. EMPLOYED PERSONS : EDUCATIONAL ATTAINMENT AND INDUSTRY, FEBRUARY 1986
(Per cent)

(Source of data : Table 7)



69.9 per cent of employed males with a degree reported having an occupation in the Professional, Technical group, while only 13.7 per cent of all employed males reported having an occupation in this group. Similarly 71.1 per cent of employed females with a degree were in this occupation group.

Unemployed persons, February 1986

Both the incidence and duration of unemployment appear to be influenced by the level of educational attainment. In February 1986 the unemployment rate for people with degrees was 3.8 per cent whereas those persons who had not attended the highest level of secondary school available had an unemployment rate of 11.2 per cent. Similarly the median duration of unemployment ranged from 7 weeks, for those persons with degrees, to 25 weeks for those persons who left school at age 15 and under.

When looking at unemployment rates for different educational levels there is a large variation according to age. Generally the unemployment rate fell as age and educational levels increased, so that the highest unemployment rate was that of persons who had left at age 15 or under and were now aged between 15 and 19 years (26.9 per cent), and the lowest unemployment rate was for persons with post-school qualifications aged between 45 and 54 years (3.2 per cent).

TABLE 1. CIVILIAN POPULATION : LABOUR FORCE STATUS AND EDUCATIONAL ATTAINMENT,
FEBRUARY 1979 TO FEBRUARY 1986
(' 000)

Educational attainment									
Labour force status at February—		Without post-school qualifications							
		With post-school qualifications			Attended highest secondary level	Did not attend highest level of secondary school and left at age		Total (b)	Total (c)
		Degree	Trade; technical or other certificate	Total (a)		16 and over	15 and under		
MALES									
Employed	1979	313.6	1,235.1	1,575.6	441.6	534.4	1,311.7	2,295.3	3,900.0
	1980	310.3	1,266.3	1,601.1	452.3	564.1	1,287.3	2,317.2	3,950.8
	1981	353.4	1,322.0	1,703.1	474.4	555.1	1,283.7	2,321.5	4,057.1
	1982	363.7	1,399.2	1,789.1	483.3	570.5	1,198.1	2,259.9	4,082.9
	1983	386.9	1,368.6	1,789.6	487.0	542.4	1,108.9	2,144.1	3,959.2
	1984	425.1	1,424.9	1,881.2	454.3	544.5	1,074.4	2,081.3	4,000.3
	1985	435.6	1,410.0	1,894.1	505.4	573.4	1,058.3	2,142.7	4,072.5
Unemployed	1986	456.7	1,490.4	1,991.6	502.4	590.8	1,048.7	2,147.4	4,180.5
	1979	6.6	45.4	53.4	30.8	47.7	98.0	177.4	241.1
	1980	10.7	38.0	50.5	22.7	54.0	93.1	169.9	229.7
	1981	8.9	36.1	45.4	28.7	49.4	91.7	170.2	225.5
	1982	8.4	41.6	50.6	35.2	61.9	94.6	192.3	251.7
	1983	14.5	106.5	124.6	59.0	91.9	151.2	303.6	440.8
	1984	18.9	96.7	118.6	60.6	89.0	149.5	301.6	435.8
In the labour force	1985	12.5	77.7	94.4	60.3	79.3	143.7	284.0	390.4
	1986	12.7	70.0	88.7	54.0	69.6	138.0	262.2	367.9
	1979	320.2	1,280.6	1,629.0	472.4	582.1	1,409.7	2,472.8	4,141.1
	1980	321.0	1,304.3	1,651.6	475.0	618.1	1,380.3	2,487.2	4,180.5
	1981	362.3	1,358.1	1,748.5	503.2	604.5	1,375.5	2,491.7	4,282.5
	1982	372.1	1,440.9	1,839.7	518.5	632.4	1,292.7	2,452.3	4,334.7
	1983	401.4	1,475.1	1,914.2	546.1	634.2	1,260.1	2,447.7	4,440.0
Not in the labour force	1984	444.1	1,521.6	1,999.8	514.9	633.6	1,223.9	2,382.9	4,436.2
	1985	448.0	1,487.7	1,988.5	565.7	652.7	1,202.0	2,426.7	4,462.9
	1986	469.4	1,560.4	2,080.4	556.3	660.4	1,186.7	2,409.7	4,548.5
	1982	38.9	215.3	257.2	96.2	72.7	525.8	707.9	1,128.1
	1983	42.4	226.4	275.0	109.3	80.8	544.7	748.0	1,187.7
	1984	49.0	244.3	297.4	103.7	72.2	569.8	754.2	1,237.5
	1985	57.0	256.2	320.0	107.3	83.7	598.1	803.0	1,309.5
Civilian population	1986	56.7	294.0	358.4	134.9	100.9	611.4	858.7	1,409.2
	1982	410.9	1,656.1	2,096.9	614.7	705.1	1,818.5	3,160.2	5,462.8
	1983	443.7	1,701.4	2,189.2	655.4	715.0	1,804.7	3,195.7	5,587.7
	1984	493.1	1,765.9	2,297.2	618.6	705.7	1,793.7	3,137.1	5,673.7
	1985	505.1	1,743.9	2,308.5	673.1	736.3	1,800.1	3,229.7	5,772.4
	1986	526.2	1,854.4	2,438.8	691.3	761.3	1,798.2	3,268.3	5,957.7
FEMALES									
Employed	1979	111.4	538.8	667.1	252.9	366.3	806.5	1,430.0	2,134.6
	1980	119.4	586.2	727.8	258.2	414.5	789.8	1,466.0	2,228.7
	1981	145.1	632.8	801.9	272.2	399.6	753.5	1,430.5	2,270.5
	1982	153.9	655.5	833.0	283.7	410.0	741.9	1,440.4	2,314.6
	1983	170.8	667.5	846.6	292.7	389.6	707.2	1,393.4	2,295.8
	1984	184.3	704.1	918.8	333.3	387.0	674.5	1,399.2	2,365.7
	1985	227.2	742.8	1,011.8	327.9	426.8	686.5	1,442.3	2,503.7
Unemployed	1986	237.7	792.6	1,075.4	355.8	468.0	684.8	1,512.4	2,646.8
	1979	*	41.4	50.3	29.5	44.8	86.4	160.7	219.0
	1980	*	39.9	46.4	29.3	49.5	76.8	157.2	213.1
	1981	10.7	36.7	51.3	24.5	48.4	62.6	136.2	196.9
	1982	12.8	50.8	65.5	33.6	47.1	74.3	155.4	232.7
	1983	15.0	68.9	87.4	43.3	66.7	94.8	206.0	305.9
	1984	14.2	71.1	88.5	41.4	62.6	93.5	198.0	301.9
In the labour force	1985	11.2	53.7	70.6	41.2	65.9	85.8	192.8	283.2
	1986	14.8	60.6	83.1	45.6	64.1	81.8	193.0	295.3
	1979	117.1	580.2	717.4	282.4	411.1	892.8	1,590.6	2,353.6
	1980	124.0	626.1	774.2	287.5	464.0	866.5	1,623.2	2,441.8
	1981	155.8	669.5	853.2	296.6	448.0	816.0	1,566.7	2,467.5
	1982	166.7	706.3	898.5	317.2	457.1	816.3	1,595.7	2,547.3
	1983	185.7	736.5	952.0	336.1	456.3	802.0	1,599.4	2,601.7
Not in the labour force	1984	198.5	775.2	1,007.2	374.7	449.5	768.0	1,597.3	2,667.6
	1985	238.4	796.5	1,082.4	369.1	492.7	772.2	1,635.2	2,787.0
	1986	252.5	853.3	1,158.5	401.5	532.1	766.5	1,705.4	2,942.2
	1982	67.5	449.0	536.9	267.1	397.3	1,639.1	2,329.8	3,018.0
	1983	63.5	471.9	561.7	280.8	385.0	1,658.2	2,351.9	3,073.9
	1984	71.9	532.9	632.7	281.8	417.5	1,626.1	2,350.5	3,147.1
	1985	73.0	482.4	584.6	286.7	436.4	1,633.6	2,386.6	3,136.7
Civilian population	1986	86.1	493.6	616.1	282.0	431.1	1,677.7	2,416.2	3,201.2
	1982	234.2	1,155.3	1,435.4	584.3	854.4	2,455.2	3,925.6	5,565.2
	1983	249.2	1,208.3	1,513.7	616.9	841.3	2,460.2	3,951.3	5,675.7
	1984	270.4	1,308.1	1,640.0	656.5	867.0	2,394.1	3,947.7	5,814.7
	1985	311.4	1,278.8	1,667.0	655.7	929.2	2,405.8	4,021.8	5,923.7
	1986	338.6	1,346.9	1,774.6	683.5	963.2	2,444.2	4,121.6	6,143.4

(a) Includes persons with other post-school qualifications. (b) Includes persons who never attended school. (c) Includes persons aged 15 to 20 still at school.

TABLE 2. CIVILIAN POPULATION : EDUCATIONAL ATTAINMENT, UNEMPLOYMENT RATE, AVERAGE AND MEDIAN DURATION OF UNEMPLOYMENT, FEBRUARY 1979 TO FEBRUARY 1986

	1979	1980	1981	1982	1983	1984	1985	1986
MALES								
<i>Unemployment rate—</i>								
With post-school qualifications(a)	3.3	3.1	2.6	2.7	6.5	5.9	4.7	4.3
Degree	2.1	3.3	2.7	2.3	3.6	4.3	2.8	2.7
Trade; technical or other certificate	3.5	2.9	2.5	2.9	7.2	6.4	5.2	4.5
Without post-school qualifications(b)	7.2	6.8	6.8	7.8	12.4	12.7	11.7	10.9
Attended highest level of secondary school available	6.5	4.8	5.7	6.8	10.8	11.8	10.7	9.7
Did not attend highest level of secondary school available	7.3	7.4	7.1	8.1	12.8	12.8	12.0	11.2
Total(c)	5.8	5.5	5.3	5.8	10.0	9.8	8.7	8.1
<i>Average duration—</i>								
With post-school qualifications(a)	24.0	24.0	23.9	29.0	23.4	35.3	40.3	47.2
Degree	12.3	18.6	19.4	20.6	20.2	34.7	30.6	36.6
Trade; technical or other certificate	26.1	24.6	25.2	31.0	23.3	35.3	42.9	48.7
Without post-school qualifications(b)	36.1	30.6	38.6	34.9	35.2	51.2	57.4	59.3
Attended highest level of secondary school available	19.8	15.7	26.2	22.3	24.8	37.5	32.7	35.6
Did not attend highest level of secondary school available	39.3	32.9	41.1	37.5	37.7	54.4	63.5	65.2
Total(c)	32.4	28.4	34.5	32.9	31.2	45.6	51.9	54.3
<i>Median duration—</i>								
With post-school qualifications(a) r	11	9	9	11	12	19	14	12
Degree r	(d)	9	9	8	11	13	12	11
Trade; technical or other certificate r	12	8	9	11	12	21	15	12
Without post-school qualifications(b) r	17	14	16	13	17	32	26	24
Attended highest level of secondary school available r	(d)	10	11	10	12	15	12	10
Did not attend highest level of secondary school available r	18	15	19	14	19	39	29	27
Total(c) r	14	12	12	12	14	26	22	17
FEMALES								
<i>Unemployment rate—</i>								
With post-school qualifications(a)	7.0	6.0	6.0	7.3	9.2	8.8	6.5	7.2
Degree	*	*	6.9	7.7	8.0	7.1	4.7	5.8
Trade; technical or other certificate	7.1	6.4	5.5	7.2	9.4	9.2	6.7	7.1
Without post-school qualifications(b)	10.1	9.7	8.7	9.7	12.9	12.4	11.8	11.3
Attended highest level of secondary school available	10.4	10.2	8.2	10.6	12.9	11.0	11.2	11.4
Did not attend highest level of secondary school available	10.1	9.5	8.8	9.5	12.9	12.8	12.0	11.2
Total(c)	9.3	8.7	8.0	9.1	11.8	11.3	10.2	10.0
<i>Average duration—</i>								
With post-school qualifications(a)	21.0	21.4	20.8	19.4	23.3	25.0	29.4	23.8
Degree	*	*	16.4	12.8	23.6	11.7	23.0	12.1
Trade; technical or other certificate	21.6	20.6	22.9	20.4	22.4	26.6	27.4	25.8
Without post-school qualifications(b)	26.3	28.6	30.0	29.2	33.8	43.3	38.5	31.6
Attended highest level of secondary school available	19.4	20.6	21.3	20.1	24.1	32.9	23.7	21.6
Did not attend highest level of secondary school available	27.8	29.7	31.8	31.8	36.5	45.9	42.5	34.5
Total(c)	24.5	26.5	26.8	25.6	30.5	36.4	34.6	28.3
<i>Median duration—</i>								
With post-school qualifications(a) r	8	9	9	8	9	9	9	7
Degree r	*	*	10	8	9	8	5	5
Trade; technical or other certificate r	7	9	10	8	9	9	8	7
Without post-school qualifications(b) r	10	11	11	10	13	16	14	10
Attended highest level of secondary school available r	9	10	10	8	10	12	10	8
Did not attend highest level of secondary school available r	11	11	11	11	14	18	19	11
Total(c) r	9	10	10	9	12	13	12	9
PERSONS								
<i>Unemployment rate—</i>								
With post-school qualifications(a)	4.4	4.0	3.7	4.2	7.4	6.9	5.4	5.3
Degree	2.8	3.5	3.8	3.9	5.0	5.2	3.4	3.8
Trade; technical or other certificate	4.7	4.0	3.6	4.3	7.9	7.3	5.8	5.4
Without post-school qualifications(b)	8.3	8.0	7.5	8.6	12.6	12.6	11.7	11.1
Attended highest level of secondary school available	8.0	6.8	6.7	8.2	11.6	11.5	10.9	10.4
Did not attend highest level of secondary school available	8.4	8.2	7.8	8.7	12.8	12.8	12.0	11.2
Total(c)	7.1	6.7	6.3	7.0	10.7	10.4	9.3	8.9
<i>Average duration—</i>								
With post-school qualifications(a)	22.6	22.7	22.2	23.6	23.4	30.9	35.7	35.9
Degree	12.1	20.1	17.8	15.9	22.0	24.9	27.0	23.4
Trade; technical or other certificate	24.0	22.5	24.0	25.2	23.0	31.6	36.6	38.0
Without post-school qualifications(b)	31.4	29.6	34.8	32.4	34.6	48.1	49.7	47.5
Attended highest level of secondary school available	19.6	18.5	24.0	21.2	24.5	35.6	29.0	29.2
Did not attend highest level of secondary school available	33.9	31.4	37.0	35.0	37.2	51.1	55.0	52.5
Total(c)	28.6	27.5	30.9	29.4	30.9	41.9	44.6	42.7
<i>Median duration—</i>								
With post-school qualifications(a) r	9	9	9	9	11	13	12	10
Degree r	(d)	9	9	8	9	10	9	7
Trade; technical or other certificate r	10	9	9	9	10	15	13	11
Without post-school qualifications(b) r	12	12	13	11	16	26	20	15
Attended highest level of secondary school available r	9	10	11	9	11	13	10	9
Did not attend highest level of secondary school available r	13	12	15	12	17	28	26	19
Total(c) r	12	11	11	10	13	19	16	12

(a) Includes persons with other post-school qualifications. (b) Includes persons who never attended school. (c) Includes persons aged 15 to 20 still at school. (d) Data not available.

**TABLE 3. CIVILIAN POPULATION : EDUCATIONAL ATTAINMENT AND
LABOUR FORCE STATUS, FEBRUARY 1986**

Educational attainment	Employed			Unem- ployed	In the labour force	Not in the labour force	Total	Partic- ipation rate	Unem- ployment rate
	Full-time	Part-time	Total						
	— '000—									—per cent—
MALES									
With post-school qualifications	1,921.3	70.3	1,991.6	88.7	2,080.4	358.4	2,438.8	85.3	4.3
Degree	436.4	20.3	456.7	12.7	469.4	56.7	526.2	89.2	2.7
Trade; technical or other certificate	1,443.0	47.4	1,490.4	70.0	1,560.4	294.0	1,854.4	84.1	4.5
Other	41.8	*	44.5	6.0	50.5	7.7	58.2	86.8	11.8
Without post-school qualifications	2,021.2	126.2	2,147.4	262.2	2,409.7	858.7	3,268.3	73.7	10.9
Attended highest level of secondary school available	460.8	41.6	502.4	54.0	556.3	134.9	691.3	80.5	9.7
Did not attend highest level of secondary school available	1,555.3	84.2	1,639.5	207.6	1,847.1	712.3	2,559.5	72.2	11.2
Left at age—									
18 and over	34.4	*	36.7	*	40.2	7.3	47.5	84.6	*
16 or 17	529.4	24.8	554.2	66.1	620.2	93.6	713.8	86.9	10.7
14 or 15	845.7	46.6	892.3	120.9	1,013.3	443.4	1,456.7	69.6	11.9
13 and under	145.8	10.5	156.4	17.1	173.5	168.0	341.4	50.8	9.9
Never attended school	5.0	*	5.5	*	6.1	11.4	17.6	35.0	*
Still at school(a)	*	39.7	41.5	17.0	58.5	192.1	250.6	23.3	29.0
Total	3,944.3	236.2	4,180.5	367.9	4,548.5	1,409.2	5,957.7	76.3	8.1
FEMALES									
With post-school qualifications	739.5	335.9	1,075.4	83.1	1,158.5	616.1	1,774.6	65.3	7.2
Degree	182.7	55.0	237.7	14.8	252.5	86.1	338.6	74.6	5.8
Trade; technical or other certificate	529.0	263.6	792.6	60.6	853.3	493.6	1,346.9	63.4	7.1
Other	27.8	17.3	45.1	7.7	52.8	36.3	89.1	59.2	14.6
Without post-school qualifications	959.3	553.1	1,512.4	193.0	1,705.4	2,416.2	4,121.6	41.4	11.3
Attended highest level of secondary school available	250.7	105.1	355.8	45.6	401.5	282.0	683.5	58.7	11.4
Did not attend highest level of secondary school available	706.1	446.7	1,152.8	145.9	1,298.7	2,108.7	3,407.4	38.1	11.2
Left at age—									
18 and over	14.1	*	18.0	*	21.5	18.2	39.7	54.1	*
16 or 17	296.8	153.1	449.9	60.7	510.6	412.9	923.5	55.3	11.9
14 or 15	346.2	259.0	605.2	72.9	678.1	1,360.0	2,038.1	33.3	10.7
13 and under	48.9	30.6	79.5	8.9	88.4	317.7	406.1	21.8	10.0
Never attended school	*	*	*	*	5.3	25.4	30.7	17.2	*
Still at school(a)	*	58.6	59.1	19.2	78.3	169.0	247.2	31.6	24.5
Total	1,699.3	947.6	2,646.8	295.3	2,942.2	3,201.2	6,143.4	47.9	10.0
PERSONS									
With post-school qualifications	2,660.8	406.3	3,067.0	171.8	3,238.9	974.5	4,213.4	76.9	5.3
Degree	619.1	75.3	694.4	27.5	721.9	142.9	864.8	83.5	3.8
Trade; technical or other certificate	1,972.1	311.0	2,283.0	130.6	2,413.7	787.6	3,201.3	75.4	5.4
Other	69.6	20.0	89.6	13.7	103.3	44.0	147.3	70.1	13.3
Without post-school qualifications	2,980.5	679.3	3,659.8	455.2	4,115.0	3,274.9	7,389.9	55.7	11.1
Attended highest level of secondary school available	711.6	146.7	858.2	99.6	957.8	417.0	1,374.8	69.7	10.4
Did not attend highest level of secondary school available	2,261.4	530.9	2,792.3	353.5	3,145.8	2,821.1	5,966.9	52.7	11.2
Left at age—									
18 and over	48.5	6.2	54.7	6.9	61.6	25.5	87.2	70.7	11.3
16 or 17	826.2	177.9	1,004.1	126.8	1,130.9	506.4	1,637.3	69.1	11.2
14 or 15	1,192.0	305.6	1,497.6	193.8	1,691.4	1,803.4	3,494.8	48.4	11.5
13 and under	194.8	41.1	235.9	26.0	261.9	485.7	747.6	35.0	9.9
Never attended school	7.5	*	9.3	*	11.4	36.8	48.2	23.7	*
Still at school(a)	*	98.2	100.6	36.2	136.8	361.1	497.8	27.5	26.4
Total	5,643.6	1,183.8	6,827.4	663.3	7,490.6	4,610.4	12,101.1	61.9	8.9

(a) Aged 15 to 20 only.

TABLE 4. CIVILIAN POPULATION : EDUCATIONAL ATTAINMENT AND AGE, FEBRUARY 1986
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Educational attainment	Age group						Total
	15-19	20-24	25-34	35-44	45-54	55 and over	
MALES							
With post-school qualifications	32.0	250.6	671.5	608.7	386.8	489.1	2,438.8
Degree	*	34.0	172.2	156.4	79.5	84.1	526.2
Trade; technical or other certificate	25.9	207.9	484.5	439.4	299.9	396.7	1,854.4
Other	6.1	8.7	14.8	12.9	7.5	8.3	58.2
Without post-school qualifications	395.6	407.2	612.1	519.4	407.4	926.6	3,268.3
Attended highest level of secondary school available	140.0	154.6	167.7	94.4	48.8	85.8	691.3
Did not attend highest level of secondary school available	255.6	252.1	442.3	423.4	354.8	831.3	2,559.5
Left at age—							
18 and over	*	8.6	18.3	9.3	*	4.6	47.5
16 or 17	139.0	136.4	185.1	110.6	56.1	86.6	713.8
14 or 15	112.2	102.8	224.6	254.5	228.8	533.8	1,456.7
13 and under	*	*	14.4	49.0	66.2	206.2	341.4
Never attended school	*	*	*	*	*	9.5	17.6
Still at school(a)	249.9	*	..	..	..	..	250.6
Total	677.6	658.4	1,283.6	1,128.1	794.3	1,415.6	5,957.7
FEMALES							
With post-school qualifications	61.0	242.9	546.1	416.0	218.2	290.4	1,774.6
Degree	*	44.1	140.2	83.2	33.1	37.6	338.6
Trade; technical or other certificate	55.1	186.7	385.4	310.1	174.4	235.1	1,346.9
Other	5.5	12.1	20.5	22.6	10.7	17.8	89.1
Without post-school qualifications	343.9	410.5	735.7	685.3	543.6	1,402.5	4,121.6
Attended highest level of secondary school available	135.4	138.7	153.9	86.7	51.1	117.7	683.5
Did not attend highest level of secondary school available	208.5	270.7	580.3	595.2	487.4	1,265.2	3,407.4
Left at age—							
18 and over	*	7.1	11.8	5.2	5.4	6.6	39.7
16 or 17	110.4	154.3	261.7	167.6	80.7	148.7	923.5
14 or 15	92.6	105.7	287.6	363.4	319.5	869.3	2,038.1
13 and under	*	*	19.3	59.0	81.9	240.6	406.1
Never attended school	*	*	*	*	5.1	19.5	30.7
Still at school(a)	245.9	*	..	..	..	..	247.2
Total	650.9	654.7	1,281.7	1,101.3	761.9	1,692.9	6,143.4
PERSONS							
With post-school qualifications	93.1	493.5	1,217.6	1,024.7	605.1	779.5	4,213.4
Degree	*	78.1	312.4	239.7	112.6	121.7	864.8
Trade; technical or other certificate	81.1	394.6	870.0	749.5	474.4	631.8	3,201.3
Other	11.6	20.8	35.3	35.5	18.2	26.0	147.3
Without post-school qualifications	739.5	817.7	1,347.7	1,204.8	951.1	2,329.0	7,389.9
Attended highest level of secondary school available	275.5	293.3	321.6	181.1	99.9	203.5	1,374.8
Did not attend highest level of secondary school available	464.1	522.8	1,022.6	1,018.6	842.2	2,096.6	5,966.9
Left at age—							
18 and over	6.7	15.7	30.0	14.5	9.1	11.3	87.2
16 or 17	249.5	290.7	446.8	278.2	136.8	235.4	1,637.3
14 or 15	204.8	208.5	512.2	617.9	548.3	1,403.1	3,494.8
13 and under	*	7.9	33.6	108.0	148.1	446.8	747.6
Never attended school	*	*	*	5.1	9.0	29.0	48.2
Still at school(a)	495.8	*	..	..	..	..	497.8
Total	1,328.4	1,313.1	2,565.3	2,229.4	1,556.2	3,108.6	12,101.1

(a) Aged 15 to 20 only.

TABLE 5. CIVILIAN POPULATION : EDUCATIONAL ATTAINMENT AND FAMILY STATUS, FEBRUARY 1986
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Family status	Educational attainment							Total (c)
	With post-school qualifications			Without post-school qualifications				
	Degree	Trade; technical or other certificate	Total (a)	Attended highest secondary level	Did not attend highest level of secondary school and left at age		Total (b)	
					16 and over	15 and under		
MALES								
Member of a family	425.2	1,567.1	2,039.0	564.1	623.2	1,499.9	2,702.9	4,981.8
Husband	374.7	1,329.8	1,736.4	298.4	352.5	1,217.3	1,880.0	3,616.4
With children aged 0-14 present	209.5	669.0	893.4	153.3	198.9	443.4	800.2	1,693.6
Without children aged 0-14 present	165.2	660.9	843.0	145.1	153.5	773.9	1,079.8	1,922.8
Not-married family head	9.6	34.1	43.9	9.2	11.4	41.8	63.0	106.9
With children aged 0-14 present	4.6	9.5	14.3	*	4.9	10.5	17.8	32.1
Without children aged 0-14 present	5.0	24.6	29.6	7.1	6.5	31.3	45.2	74.8
Child of family head	38.8	184.0	237.1	240.4	244.3	192.0	678.9	1,153.4
Other relative of family head	*	19.1	21.6	16.1	15.0	48.9	81.0	105.1
Not a member of a family	84.4	230.3	323.3	98.8	110.3	237.5	448.1	772.0
Living alone	43.5	121.4	169.6	42.7	51.4	157.1	252.5	422.3
Not living alone	40.9	108.9	153.6	56.1	58.9	80.3	195.6	349.7
Not family coded	16.6	57.0	76.5	28.3	27.8	60.7	117.3	203.9
Total	526.2	1,854.4	2,438.8	691.3	761.3	1,798.2	3,268.3	5,957.7
FEMALES								
Member of a family	257.7	1,100.1	1,432.1	548.3	811.9	1,971.3	3,359.4	5,029.0
Wife	202.5	858.9	1,118.2	314.4	560.1	1,547.4	2,437.2	3,555.4
With children aged 0-14 present	109.7	465.4	606.0	153.3	327.4	552.9	1,038.7	1,644.7
Without children aged 0-14 present	92.8	393.5	512.2	161.2	232.7	994.4	1,398.5	1,910.7
Not-married family head	19.7	91.9	118.8	39.3	75.7	233.1	351.5	470.6
With children aged 0-14 present	9.5	53.8	66.7	22.2	49.6	93.9	166.1	233.1
Without children aged 0-14 present	10.1	38.1	52.1	17.1	26.1	139.2	185.5	237.5
Child of family head	29.0	134.2	172.8	183.6	160.4	108.2	453.6	859.5
Other relative of family head	6.6	15.1	22.3	11.0	15.7	82.6	117.2	143.5
Not a member of a family	70.6	193.9	275.7	100.9	116.1	400.5	619.6	896.4
Living alone	37.0	110.2	155.6	54.6	68.4	349.9	475.0	631.1
Not living alone	33.5	83.7	120.1	46.3	47.7	50.5	144.6	265.4
Not family coded	10.3	52.9	66.8	34.3	35.2	72.5	142.5	218.0
Total	338.6	1,346.9	1,774.6	683.5	963.2	2,444.2	4,121.6	6,143.4
PERSONS								
Member of a family	683.0	2,667.1	3,471.1	1,112.4	1,435.1	3,471.2	6,062.3	10,010.8
Husband or wife	577.2	2,188.8	2,854.6	612.9	912.6	2,764.6	4,317.2	7,171.8
With children aged 0-14 present	319.2	1,134.3	1,499.4	306.6	526.3	996.3	1,838.9	3,338.3
Without children aged 0-14 present	258.0	1,054.4	1,355.2	306.3	386.3	1,768.3	2,478.3	3,833.5
Not-married family head	29.2	126.0	162.7	48.5	87.1	274.9	414.6	577.5
With children aged 0-14 present	14.1	63.3	81.0	24.3	54.5	104.4	183.9	265.2
Without children aged 0-14 present	15.1	62.7	81.6	24.2	32.6	170.5	230.7	312.3
Child of family head	67.8	318.1	409.9	424.0	404.7	300.2	1,132.4	2,012.9
Other relative of family head	8.8	34.2	43.9	27.1	30.7	131.5	198.1	248.6
Not a member of a family	155.0	424.2	599.0	199.8	226.4	637.9	1,067.7	1,668.4
Living alone	80.5	231.7	325.2	97.4	119.8	507.0	727.5	1,053.3
Not living alone	74.4	192.5	273.8	102.4	106.5	130.9	340.2	615.1
Not family coded	26.8	109.9	143.3	62.6	63.0	133.2	259.9	421.9
Total	864.8	3,201.3	4,213.4	1,374.8	1,724.5	4,242.4	7,389.9	12,101.1

(a) Includes persons with other post-school qualifications. (b) Includes persons who never attended school. (c) Includes persons aged 15 to 20 still at school.

**TABLE 6. CIVILIAN POPULATION :
MAIN FIELD OF STUDY, AGE AND LABOUR FORCE STATUS, FEBRUARY 1986**

Main field of study	Age group					In the labour force		Not in the labour force	Total	Participation rate
	15-24	25-34	35-44	45-54	55 and over	Employed	Total			
	— '000—							(per cent)		
MALES										
Degree—										
Administration etc.(a)	10.8	38.6	35.7	17.5	15.9	106.4	108.7	9.7	118.5	91.8
Law	*	11.8	6.9	6.4	4.6	27.3	27.7	*	30.7	90.3
Education, teaching	*	19.2	20.3	9.7	6.6	51.5	51.8	*	56.2	92.1
Medicine(b)	*	14.0	16.6	9.3	10.2	47.6	48.2	*	51.7	93.1
Science(c)	9.2	32.4	27.1	11.1	13.0	80.3	83.0	9.8	92.7	89.5
Engineering(d)	5.6	28.1	29.5	12.2	17.8	75.9	78.1	15.1	93.1	83.8
Architecture	*	4.8	*	5.5		12.4	12.9	*	14.2	90.6
Humanities(e)	4.1	20.4	16.4	7.5	12.1	48.1	51.7	8.9	60.5	85.3
Other	*	*	*	*	*	7.2	7.4	*	8.4	88.8
Total	34.0	172.2	156.4	79.5	84.1	456.7	469.4	56.7	526.2	89.2
Trade; technical or other certificate—										
Trades—										
Metal	43.5	76.1	68.3	42.7	72.0	235.9	249.9	52.7	302.6	82.6
Electrical	21.0	45.1	38.7	20.8	25.0	127.7	131.4	19.2	150.6	87.3
Building	41.3	72.8	67.1	51.6	61.3	234.0	243.9	50.3	294.2	82.9
Automotive	33.5	67.3	43.0	30.7	32.9	166.1	178.0	29.5	207.5	85.8
Other	36.3	70.5	55.0	44.6	57.1	211.6	220.3	43.2	263.5	83.6
Total	175.7	331.8	272.0	190.4	248.3	975.4	1,023.5	194.9	1,218.3	84.0
Secretarial, etc.(f)	*	5.4	*	*	*	7.1	8.0	*	10.4	77.4
Health, para-medical (g)	*	10.1	8.7	7.6	7.8	30.2	30.8	6.6	37.4	82.4
Engineering(h)	12.8	39.1	41.5	28.4	44.2	134.0	138.4	27.6	166.0	83.4
Teaching	*	11.8	12.8	7.0	9.8	34.3	35.5	8.4	43.9	80.8
Administration, law(i)	8.3	30.5	50.0	31.0	44.5	134.4	137.5	26.8	164.3	83.7
Science, humanities(j)	10.5	24.7	20.0	8.3	12.0	62.8	67.7	7.9	75.5	89.6
Other	19.5	32.6	32.8	26.4	27.4	112.1	119.1	19.5	138.7	85.9
Total	233.8	484.5	439.4	299.9	396.7	1,490.4	1,560.4	294.0	1,854.4	84.1
FEMALES										
Degree—										
Administration etc.(a)	5.8	15.2	6.8	5.4	*	24.9	27.2	6.0	33.3	81.9
Law	*	5.2	*	*	*	5.9	5.9	*	9.1	64.9
Education, teaching	12.3	45.0	27.9	10.7	10.9	74.5	79.5	27.4	106.8	74.4
Medicine(b)	*	15.1	12.4	4.9	4.9	32.5	32.7	8.4	41.1	79.4
Science(c)	7.8	19.6	7.8	5.9	*	29.4	31.3	9.9	41.1	76.0
Humanities(e)	12.3	36.7	25.7	10.6	12.2	63.3	68.3	29.3	97.6	70.0
Other(k)	*	5.9	*	*	*	7.1	7.6	*	9.5	79.3
Total	44.5	140.2	83.2	33.1	37.6	237.7	252.5	86.1	338.6	74.6
Trade; technical or other certificate—										
Trade	17.1	24.2	21.5	11.8	20.7	49.4	52.6	42.6	95.2	55.2
Secretarial, etc.(f)	124.3	131.6	98.5	51.4	76.2	276.9	306.2	175.9	482.1	63.5
Health, para-medical (g)	37.9	113.3	87.4	56.5	57.6	221.7	234.3	118.5	352.8	66.4
Engineering(h)	*	4.9	*	*	*	*	4.6	*	7.7	60.3
Teaching	16.6	53.9	45.8	27.1	35.1	103.7	108.8	69.7	178.5	61.0
Administration, law(i)	11.9	18.5	15.9	6.5	10.0	41.7	43.8	19.0	62.8	69.7
Science, humanities(j)	12.9	20.4	18.3	8.7	13.8	42.4	46.7	27.4	74.1	63.0
Other	19.9	20.9	20.4	11.9	20.6	52.8	56.3	37.4	93.7	60.1
Total	241.8	385.4	310.1	174.4	235.1	792.6	853.3	493.6	1,346.9	63.4

(a) Includes administration, business studies, commerce, economics, accounting, secretarial studies. (b) Includes dentistry, pharmacy, nursing. (c) Includes mathematics, computing, veterinary and agricultural science, statistics, computer programming, chemistry, physics. (d) Includes telecommunication, transport, surveying. (e) Includes languages, history, politics, philosophy, psychology, social welfare, religion, geography, art, music. (f) Includes typing, secretarial studies, data processing. (g) Includes nursing, health therapy. (h) Includes telecommunication, architecture, surveying, drafting, town planning. (i) Includes commerce, business administration, economics, book-keeping. (j) Includes computing, veterinary and agricultural science, chemistry, social studies, social welfare, languages, arts, crafts, music. (k) Includes engineering (including telecommunications, transport, surveying), architecture and other.

TABLE 7. EMPLOYED PERSONS : EDUCATIONAL ATTAINMENT AND INDUSTRY, FEBRUARY 1986
(' 000)

Industry	Educational attainment							Total (c)
	With post-school qualifications			Without post-school qualifications				
	Degree	Trade; technical or other certificate	Total (a)	Attended highest secondary level	Did not attend highest level of secondary school and left at age		Total (b)	
					16 and over	15 and under		
MALES								
Agriculture, forestry, fishing and hunting	9.9	61.1	76.7	37.0	48.3	136.6	222.1	300.4
Mining	11.4	38.1	50.3	7.6	13.3	27.1	48.0	98.5
Manufacturing	42.7	329.2	379.9	87.3	136.9	250.5	476.4	859.6
Electricity, gas and water	12.1	65.0	78.6	10.0	20.6	28.5	59.4	138.0
Construction	8.5	226.7	237.5	33.2	46.8	98.6	179.6	417.7
Wholesale and retail trade	38.6	271.3	316.4	99.8	138.6	185.9	424.9	769.5
Transport and storage	11.5	96.9	112.0	34.7	50.8	110.0	196.1	308.2
Communication	5.0	39.8	47.0	14.4	13.4	25.3	53.2	100.2
Finance, property and business services	91.9	105.0	200.4	75.9	47.4	45.2	168.5	369.6
Public administration and defence	47.7	65.2	116.8	32.0	20.2	44.1	96.9	213.7
Community services	167.9	128.2	298.8	30.7	28.9	46.6	106.6	406.5
Recreation, personal and other services	9.5	63.9	77.3	39.6	25.7	50.2	115.8	198.6
Total	456.7	1,490.4	1,991.6	502.4	590.8	1,048.7	2,147.4	4,180.5
FEMALES								
Agriculture, forestry, fishing and hunting	4.8	25.8	33.8	11.9	21.0	49.5	82.4	117.7
Mining	*	*	*	*	*	*	5.3	9.3
Manufacturing	9.5	59.2	74.2	32.4	66.5	129.8	230.7	306.8
Electricity, gas and water	*	*	4.5	*	5.3	*	8.2	12.8
Construction	*	14.2	16.7	8.3	12.1	16.1	36.4	53.4
Wholesale and retail trade	18.1	118.4	148.4	88.3	137.5	186.1	411.9	604.8
Transport and storage	*	19.3	22.5	9.1	10.1	16.6	35.8	58.3
Communication	*	7.7	9.8	7.8	9.6	13.2	30.6	40.7
Finance, property and business services	18.9	101.0	128.8	63.9	70.9	62.7	197.7	327.1
Public administration and defence	18.3	33.3	54.3	23.0	22.0	17.3	62.3	116.7
Community services	151.6	335.6	493.2	67.2	69.6	109.8	247.8	742.9
Recreation, personal and other services	8.8	72.7	85.1	39.2	44.0	79.7	163.3	256.5
Total	237.7	792.6	1,075.4	355.8	468.0	684.8	1,512.4	2,646.8
PERSONS								
Agriculture, forestry, fishing and hunting	14.8	86.9	110.4	49.0	69.3	186.1	304.5	418.1
Mining	11.7	41.3	54.3	9.4	14.9	29.0	53.3	107.8
Manufacturing	52.2	388.3	454.1	119.7	203.4	380.3	707.1	1,166.4
Electricity, gas and water	13.9	67.4	83.1	13.0	23.8	30.6	67.7	150.8
Construction	9.6	240.9	254.2	41.5	58.8	114.7	216.0	471.1
Wholesale and retail trade	56.7	389.7	464.8	188.1	276.1	372.0	836.8	1,374.3
Transport and storage	14.1	116.2	134.5	43.8	60.9	126.6	231.9	366.5
Communication	6.8	47.5	56.8	22.2	23.0	38.5	83.8	140.8
Finance, property and business services	110.9	206.0	329.2	139.8	118.3	108.0	366.1	696.7
Public administration and defence	66.0	98.5	171.1	55.1	42.2	61.4	159.2	330.4
Community services	319.5	463.9	792.0	97.9	98.5	156.5	354.4	1,149.5
Recreation, personal and other services	18.3	136.6	162.4	78.8	69.6	129.9	279.1	455.0
Total	694.4	2,283.0	3,067.0	858.2	1,058.8	1,733.5	3,659.8	6,827.4

(a) Includes persons with other post-school qualifications. (b) Includes persons who never attended school. (c) Includes persons aged 15 to 20 still at school.

TABLE 8. EMPLOYED PERSONS : EDUCATIONAL ATTAINMENT AND OCCUPATION, FEBRUARY 1986
(' 000)

Occupation	Educational attainment							Total (c)
	With post-school qualifications			Without post-school qualifications				
	Degree	Trade; technical or other certificate	Total (a)	Attended highest secondary level	Did not attend highest level of secondary school and left at age		Total (b)	
					16 and over	15 and under		
MALES								
Professional, technical, etc.	319.4	180.2	500.5	45.0	13.6	13.3	71.9	572.6
Administrative, executive and managerial	58.1	145.7	208.5	60.3	57.1	76.0	193.8	402.2
Clerical	34.4	69.1	108.9	114.3	58.1	49.6	222.0	332.5
Sales	10.8	80.2	93.9	44.4	50.3	69.8	164.8	275.5
Farmers, fisherpersons and timber- getters, etc.	9.4	73.6	89.5	41.3	52.9	154.1	248.4	340.4
Miners and quarryworkers	*	12.4	14.0	*	7.9	15.9	26.3	40.3
Transport and communication	5.2	74.8	85.0	23.2	54.2	134.4	211.8	297.1
Trades and production-process workers and labourers, n.e.c.	13.0	772.7	799.1	126.4	259.9	463.6	853.8	1,662.7
Service, sport and recreation	5.3	81.7	92.2	44.9	36.9	71.9	154.6	257.1
Total	456.7	1,490.4	1,991.6	502.4	590.8	1,048.7	2,147.4	4,180.5
FEMALES								
Professional, technical, etc.	169.1	243.4	413.5	31.9	19.3	14.3	65.5	479.3
Administrative, executive and managerial	9.1	23.2	35.3	13.1	16.3	20.9	50.2	85.6
Clerical	34.5	291.9	345.7	168.8	204.5	182.6	555.9	915.9
Sales	8.2	61.0	76.4	51.5	76.3	105.3	233.1	339.6
Farmers, fisherpersons and timber- getters, etc.	4.6	24.4	32.1	11.9	21.4	49.7	83.0	116.7
Transport and communication	*	8.8	10.0	5.5	8.4	17.9	31.8	41.7
Trades and production-process workers and labourers, n.e.c.(d)	*	28.9	36.3	23.0	51.5	120.4	196.8	235.4
Service, sport and recreation	8.1	111.0	126.0	50.2	70.3	173.7	296.1	432.6
Total	237.7	792.6	1,075.4	355.8	468.0	684.8	1,512.4	2,646.8
PERSONS								
Professional, technical, etc.	488.5	423.6	914.0	76.9	32.9	27.6	137.4	1,052.0
Administrative, executive and managerial	67.3	168.9	243.8	73.4	73.4	96.9	244.0	487.8
Clerical	68.9	360.9	454.7	283.2	262.6	232.2	777.9	1,248.5
Sales	19.1	141.2	170.3	96.0	126.6	175.1	397.9	615.1
Farmers, fisherpersons and timber- getters, etc.	14.0	98.0	121.6	53.1	74.3	203.8	331.4	457.1
Miners and quarryworkers	*	12.4	14.3	*	8.1	15.9	26.5	40.7
Transport and communication	5.9	83.7	95.0	28.7	62.5	152.4	243.6	338.8
Trades and production-process workers and labourers, n.e.c.	16.0	801.5	835.2	149.4	311.3	584.0	1,050.4	1,897.6
Service, sport and recreation	13.4	192.8	218.3	95.1	107.1	245.7	450.6	689.6
Total	694.4	2,283.0	3,067.0	858.2	1,058.8	1,733.5	3,659.8	6,827.4

(a) Includes persons with other post-school qualifications. (b) Includes persons who never attended school. (c) Includes persons aged 15 to 20 still at school.
(d) Includes miners and quarryworkers.

TABLE 9. EMPLOYED PERSONS : EDUCATIONAL ATTAINMENT AND AGE, FEBRUARY 1986

Educational attainment	Age group						Total	(per cent)
	15-19	20-24	25-34	35-44	45-54	55 and over		
	— '000—							
MALES								
With post-school qualifications	25.1	218.7	625.0	572.2	350.2	200.4	1,991.6	47.6
Degree	*	26.0	160.4	150.8	74.8	44.6	456.7	10.9
Trade; technical or other certificate	21.2	185.8	451.7	409.5	268.7	153.4	1,490.4	35.7
Other	*	6.9	12.8	11.9	6.6	*	44.5	1.1
Without post-school qualifications(a)	269.1	312.5	509.3	450.0	330.7	275.6	2,147.4	51.4
Attended highest level of secondary school available	86.7	113.5	147.8	83.3	43.4	27.7	502.4	12.0
Did not attend highest level of secondary school available	182.4	199.0	360.8	366.1	285.0	246.1	1,639.5	39.2
Left at age—								
18 and over	*	7.4	15.6	8.3	4.6		36.7	0.9
16 or 17	104.3	112.5	161.0	100.5	44.1	31.8	554.2	13.3
14 or 15	76.8	77.4	174.0	221.4	186.5	156.2	892.3	21.3
13 and under	*	*	10.2	36.0	51.7	56.2	156.4	3.7
Still at school(b)	41.2	*	..	..	..	..	41.5	1.0
Total	335.5	531.5	1,134.3	1,022.3	680.9	476.0	4,180.5	100.0
FEMALES								
With post-school qualifications	48.1	191.7	356.3	277.0	142.9	59.4	1,075.4	40.6
Degree	*	37.1	106.3	58.8	24.4	10.6	237.7	9.0
Trade; technical or other certificate	44.4	146.0	239.1	205.5	112.7	44.9	792.6	29.9
Other	*	8.5	10.9	12.7	5.8	*	45.1	1.7
Without post-school qualifications(a)	206.4	250.4	344.9	366.5	232.1	112.1	1,512.4	57.1
Attended highest level of secondary school available	79.6	96.7	91.4	48.2	26.1	13.8	355.8	13.4
Did not attend highest level of secondary school available	126.8	153.8	252.8	316.5	205.4	97.5	1,152.8	43.6
Left at age—								
18 and over	4.8		7.8	*	*	*	18.0	0.7
16 or 17	73.0	101.8	123.7	92.3	41.4	17.8	449.9	17.0
14 or 15	52.7	47.2	115.0	193.0	132.4	64.9	605.2	22.9
13 and under	*	*	6.3	28.9	29.6	13.5	79.5	3.0
Still at school(b)	58.6	*	..	..	..	..	59.1	2.2
Total	313.2	442.5	701.2	643.5	375.0	171.5	2,646.8	100.0
PERSONS								
With post-school qualifications	73.3	410.4	981.3	849.2	493.1	259.8	3,067.0	44.9
Degree	*	63.1	266.8	209.6	99.3	55.3	694.4	10.2
Trade; technical or other certificate	65.7	331.9	690.8	615.0	381.4	198.3	2,283.0	33.4
Other	7.2	15.4	23.7	24.6	12.4	6.3	89.6	1.3
Without post-school qualifications	475.6	562.9	854.2	816.5	562.8	387.7	3,659.8	53.6
Attended highest level of secondary school available	166.3	210.2	239.2	131.5	69.5	41.5	858.2	12.6
Did not attend highest level of secondary school available	309.3	352.8	613.6	682.7	490.4	343.6	2,792.3	40.9
Left at age—								
18 and over	*	11.4	23.4	10.5	4.6	*	54.7	0.8
16 or 17	177.2	214.3	284.6	192.8	85.5	49.6	1,004.1	14.7
14 or 15	129.5	124.6	289.0	414.4	318.9	221.1	1,497.6	21.9
13 and under	*	*	16.5	65.0	81.3	69.7	235.9	3.5
Never attended school	*	*	*	*	5.4		9.3	0.1
Still at school(b)	99.9	*	..	..	..	..	100.6	1.5
Total	648.7	974.0	1,835.4	1,665.8	1,055.9	647.5	6,827.4	100.0

(a) Includes persons who never attended school. (b) Aged 15 to 20 only.

**TABLE 10. UNEMPLOYED PERSONS : UNEMPLOYMENT RATE AND UNEMPLOYMENT/POPULATION RATIO
BY EDUCATIONAL ATTAINMENT AND AGE, FEBRUARY 1986**

Educational attainment	Age group						Total
	15-19	20-24	25-34	35-44	45-54	55 and over	
UNEMPLOYED PERSONS ('000)							
With post-school qualifications(a)	14.7	41.4	47.0	42.6	16.1	9.9	171.8
Degree	*	7.5	9.3	8.7	*	*	27.5
Trade; technical or other certificate	11.2	30.5	35.5	31.0	13.7	8.8	130.6
Without post-school qualifications(b)	138.9	90.0	106.6	62.5	34.9	22.2	455.2
Attended highest level of secondary school available	39.7	27.9	19.9	8.7	*	*	99.6
Did not attend highest level of secondary school available	99.2	62.1	86.1	53.2	32.5	20.4	353.5
Left at age—							
16 and over	51.3	30.4	32.6	12.0	5.7	*	133.7
15 and under	47.9	31.7	53.4	41.2	26.8	18.7	219.8
Still at school(c)	36.2	*	..	..	..	..	36.2
Total	189.8	131.5	153.6	105.1	51.1	32.1	663.3
UNEMPLOYMENT RATE (per cent)							
With post-school qualifications(a)	16.7	9.2	4.6	4.8	3.2	3.9	5.3
Degree	*	10.7	3.4	4.0	*	*	3.8
Trade; technical or other certificate	14.6	8.4	4.9	4.8	3.5	4.3	5.4
Without post-school qualifications(b)	22.6	13.8	11.1	7.1	5.8	5.4	11.1
Attended highest level of secondary school available	19.3	11.7	7.7	6.2	*	*	10.4
Did not attend highest level of secondary school available	24.3	15.0	12.3	7.2	6.2	5.6	11.2
Left at age—							
16 and over	22.3	11.9	9.6	5.6	5.9	*	11.2
15 and under	26.9	20.0	14.9	7.9	6.3	6.0	11.3
Still at school(c)	26.6	*	..	..	..	..	26.4
Total	22.6	11.9	7.7	5.9	4.6	4.7	8.9
UNEMPLOYMENT/POPULATION RATIO (per cent)							
With post-school qualifications(a)	15.8	8.4	3.9	4.2	2.7	1.3	4.1
Degree	*	9.6	3.0	3.6	*	*	3.2
Trade; technical or other certificate	13.8	7.7	4.1	4.1	2.9	1.4	4.1
Without post-school qualifications(b)	18.8	11.0	7.9	5.2	3.7	1.0	6.2
Attended highest level of secondary school available	14.4	9.5	6.2	4.8	*	*	7.2
Did not attend highest level of secondary school available	21.4	11.9	8.4	5.2	3.9	1.0	5.9
Left at age—							
16 and over	20.0	9.9	6.8	4.1	3.9	*	7.8
15 and under	23.1	14.7	9.8	5.7	3.8	1.0	5.2
Still at school(c)	7.3	*	..	..	..	..	7.3
Total	14.3	10.0	6.0	4.7	3.3	1.0	5.5

(a) Includes persons with other post-school qualifications. (b) Includes persons who never attended school. (c) Aged 15 to 20 only.

TABLE 11. UNEMPLOYED PERSONS : EDUCATIONAL ATTAINMENT AND AGE, FEBRUARY 1986

Educational attainment	Age group						Total	(per cent)
	15-19	20-24	25-34	35-44	45-54	55 and over		
	— '000—							
MALES								
With post-school qualifications(a)	5.7	21.9	22.8	18.5	10.8	9.0	88.7	24.1
Degree	*	4.7	6.4		*	*	12.7	3.5
Trade; technical or other certificate	*	15.4	17.9	15.2	9.6	7.9	70.0	19.0
Without post-school qualifications(b)	75.2	53.6	62.5	32.3	21.5	17.1	262.2	71.3
Attended highest level of secondary school available	18.9	16.4	11.7	*	*	*	54.0	14.7
Did not attend highest level of secondary school available	56.4	37.3	50.5	28.0	19.7	15.8	207.6	56.4
Left at age—								
16 and over	27.3	17.2	15.3	5.9	*	*	69.6	18.9
15 and under	29.1	20.0	35.2	22.1	17.4	14.3	138.0	37.5
Still at school(c)	17.0	*	..	..	..	..	17.0	4.6
Total	97.9	75.6	85.3	50.8	32.2	26.1	367.9	100.0
FEMALES								
With post-school qualifications(a)	9.0	19.5	24.3	24.0	5.4	*	83.1	28.1
Degree	*	*	5.7	5.9	*	*	14.8	5.0
Trade; technical or other certificate	7.2	15.1	17.6	15.8	*	*	60.6	20.5
Without post-school qualifications(b)	63.7	36.4	44.1	30.3	13.5	5.1	193.0	65.4
Attended highest level of secondary school available	20.8	11.5	8.3	*	*	*	45.6	15.4
Did not attend highest level of secondary school available	42.8	24.9	35.5	25.2	12.8	4.6	145.9	49.4
Left at age—								
16 and over	24.0	13.2	17.3	6.1	*	*	64.1	21.7
15 and under	18.8	11.7	18.2	19.1	9.4	*	81.8	27.7
Still at school(c)	19.2	*	..	..	..	..	19.2	6.5
Total	91.9	55.9	68.4	54.3	18.9	6.0	295.3	100.0
PERSONS								
With post-school qualifications(a)	14.7	41.4	47.0	42.6	16.1	9.9	171.8	25.9
Degree	*	7.5	9.3	8.7	*	*	27.5	4.1
Trade; technical or other certificate	11.2	30.5	35.5	31.0	13.7	8.8	130.6	19.7
Without post-school qualifications(b)	138.9	90.0	106.6	62.5	34.9	22.2	455.2	68.6
Attended highest level of secondary school available	39.7	27.9	19.9	8.7	*	*	99.6	15.0
Did not attend highest level of secondary school available	99.2	62.1	86.1	53.2	32.5	20.4	353.5	53.3
Left at age—								
16 and over	51.3	30.4	32.6	12.0	5.7	*	133.7	20.2
15 and under	47.9	31.7	53.4	41.2	26.8	18.7	219.8	33.1
Still at school(c)	36.2	*	..	..	..	..	36.2	5.5
Total	189.8	131.5	153.6	105.1	51.1	32.1	663.3	100.0

(a) Includes persons with other post-school qualifications. (b) Includes persons who never attended school. (c) Aged 15 to 20 only.

TABLE 12. UNEMPLOYED PERSONS : EDUCATIONAL ATTAINMENT AND DURATION OF CURRENT PERIOD OF UNEMPLOYMENT, FEBRUARY 1986

Educational attainment	Duration of current period of unemployment (weeks)						Total	Average (mean) duration	Median duration
	1 and under 4	4 and under 8	8 and under 13	13 and under 26	26 and under 52	52 and over			
	— ' 000—								— weeks—
MALES									
With post-school qualifications(a)	17.7	10.3	14.7	11.1	11.6	23.4	88.7	47.2	12
Degree	4.7		*	*	*	*	12.7	36.6	11
Trade; technical or other certificate	13.6	8.2	11.1	8.6	9.5	19.0	70.0	48.7	12
Without post-school qualifications(b)	29.6	32.5	38.4	31.0	30.6	100.1	262.2	59.3	24
Attended highest level of secondary school available	9.1	8.7	12.7	7.0	*	12.9	54.0	35.6	10
Did not attend highest level of secondary school available	20.5	23.8	25.7	24.0	27.0	86.6	207.6	65.2	27
Left at age—									
16 and over	8.0	11.7	10.3	9.6	9.0	20.9	69.6	44.9	17
15 and under	12.5	12.1	15.4	14.4	18.0	65.6	138.0	75.4	41
Still at school(c)	5.9	*	4.9		*	*	17.0	13.6	6
Total	53.2	46.0	57.2	42.9	43.3	125.3	367.9	54.3	17
FEMALES									
With post-school qualifications(a)	24.4	13.8	12.0	10.2	9.8	12.9	83.1	23.8	7
Degree	5.3	*	*	*	*	*	14.8	12.1	5
Trade; technical or other certificate	18.0	9.8	8.2	7.2	7.4	10.1	60.6	25.8	7
Without post-school qualifications(b)	46.4	29.7	26.6	26.4	23.9	40.0	193.0	31.6	10
Attended highest level of secondary school available	9.8	8.9	9.9	5.8	*	8.1	45.6	21.6	8
Did not attend highest level of secondary school available	36.6	20.6	16.5	20.3	20.6	31.3	145.9	34.5	11
Left at age—									
16 and over	14.3	10.7	10.4	8.0	9.3	11.4	64.1	25.5	10
15 and under	22.2	9.9	6.1	12.4	11.3	19.9	81.8	41.5	13
Still at school(c)	5.8	*	6.3		*	*	19.2	15.6	7
Total	76.6	46.6	42.9	38.7	35.6	55.1	295.3	28.3	9
PERSONS									
With post-school qualifications(a)	42.0	24.1	26.7	21.3	21.4	36.3	171.8	35.9	10
Degree	8.6	4.8	4.9	*	6.2		27.5	23.4	7
Trade; technical or other certificate	31.6	18.0	19.3	15.8	16.9	29.1	130.6	38.0	11
Without post-school qualifications(b)	76.0	62.2	65.1	57.4	54.5	140.1	455.2	47.5	15
Attended highest level of secondary school available	18.9	17.5	22.6	12.7	6.9	20.9	99.6	29.2	9
Did not attend highest level of secondary school available	57.1	44.4	42.3	44.3	47.6	117.9	353.5	52.5	19
Left at age—									
16 and over	22.4	22.5	20.7	17.6	18.3	32.3	133.7	35.6	12
15 and under	34.7	21.9	21.5	26.8	29.3	85.6	219.8	62.8	25
Still at school(c)	11.7	6.2	8.3	*	7.0		36.2	14.7	7
Total	129.8	92.5	100.1	81.6	78.9	180.3	663.3	42.7	12

(a) Includes persons with other post-school qualifications. (b) Includes persons who never attended school. (c) Aged 15 to 20 only.

TABLE 13. PERSONS NOT IN THE LABOUR FORCE : EDUCATIONAL ATTAINMENT, MAIN ACTIVITY WHILE OUT OF THE LABOUR FORCE AND WHETHER IN THE LABOUR FORCE IN THE LAST TWELVE MONTHS, FEBRUARY 1986 ('000)

Educational attainment	Main activity while out of the labour force									Total
	House wife or home duties	Studied or went to school, university	Retired or tech. voluntarily inactive	Unpaid leave	Own illness, injury	Permanently unable to work	Worked in unpaid voluntary work	Other	Not asked main activity	
IN THE LABOUR FORCE IN THE LAST TWELVE MONTHS										
With post-school qualifications(a)	115.6	13.5	37.7	8.9	12.8	*	*	6.5	24.4	220.7
Degree	21.0	6.9	9.5	*	*	*	*	*	*	44.7
Trade; technical or other certificate	91.7	5.6	27.8	6.6	11.6	*	*	*	20.1	168.7
Without post-school qualifications(b)	181.2	50.8	51.9	7.2	24.9	*	*	8.1	45.2	371.9
Attended highest level of secondary school available	27.8	37.7	10.7	*	6.0	*	*	*	8.1	96.9
Did not attend highest level of secondary school available	153.1	13.1	41.1	4.8	18.9	*	*	*	36.9	274.2
Left at age—										
16 and over	51.6	7.2	9.7	*	*	*	*	*	9.5	85.3
15 and under	101.5	6.0	31.4	*	15.3	*	*	*	27.5	188.9
Still at school(c)	*	72.9	*	*	*	*	*	*	4.9	79.8
Total	296.8	137.3	90.7	16.6	37.7	*	*	15.0	74.6	672.4
Males	6.1	75.8	64.2	5.6	25.7	*	*	10.6	31.9	221.8
Females	290.8	61.4	26.5	11.0	12.0	*	*	4.5	42.7	450.6
NOT IN THE LABOUR FORCE IN THE LAST TWELVE MONTHS										
With post-school qualifications(a)	398.1	18.5	269.0	*	35.4	10.1	17.3	5.0	..	753.8
Degree	45.3	8.6	35.4	*	*	*	*	*	..	98.2
Trade; technical or other certificate	327.1	8.5	225.9	*	30.1	9.7	13.8	*	..	618.8
Without post-school qualifications	1,868.2	85.5	730.8	*	135.7	37.9	27.7	16.5	..	2,903.0
Attended highest level of secondary school available	177.0	59.8	63.2	*	12.7	*	*	*	..	320.1
Did not attend highest level of secondary school available	1,677.3	25.4	652.5	*	119.4	32.9	24.5	14.5	..	2,546.9
Left at age—										
16 and over	322.5	13.6	70.3	*	23.0	6.1	7.5	*	..	446.7
15 and under	1,354.9	11.8	582.2	*	96.5	26.8	17.0	10.8	..	2,100.2
Never attended school	13.9	*	14.7	*	*	*	*	*	..	36.0
Still at school(c)	*	279.8	*	*	*	*	*	*	..	281.3
Total	2,266.8	383.7	999.9	*	171.5	48.1	45.4	21.5	..	3,938.1
Males	47.7	196.0	765.1	*	117.7	33.0	13.0	14.0	..	1,187.4
Females	2,219.2	187.7	234.8	*	53.7	15.1	32.4	7.5	..	2,750.6
TOTAL										
With post-school qualifications	513.7	32.0	306.7	9.4	48.3	10.5	18.1	11.5	24.4	974.5
Degree	66.3	15.5	44.9	*	5.3	*	*	*	*	142.9
Trade; technical or other certificate	418.8	14.1	253.7	6.8	41.7	10.1	14.6	7.8	20.1	787.6
Other	28.7	*	8.2	*	*	*	*	*	*	44.0
Without post-school qualifications	2,049.4	136.4	782.7	7.8	160.6	38.6	29.5	24.7	45.2	3,274.9
Attended highest level of secondary school available	204.8	97.6	74.3	*	18.6	*	*	5.2	8.1	417.0
Did not attend highest level of secondary school available	1,830.4	38.5	693.5	5.2	138.3	33.6	25.7	18.9	36.9	2,821.1
Left at age—										
16 and over	374.0	20.8	80.0	*	26.6	6.1	7.7	5.6	9.5	532.0
15 and under	1,456.3	17.7	613.5	*	111.8	27.5	18.0	13.3	27.5	2,289.1
Never attended school	14.2	*	14.8	*	*	*	*	*	*	36.2
Still at school(c)	*	352.7	*	*	*	*	*	*	4.9	361.1
Total	2,563.6	521.0	1,090.6	17.8	209.2	49.2	48.0	36.5	74.6	4,610.4
Males	53.7	271.9	829.3	6.5	143.5	34.0	13.9	24.6	31.9	1,409.2
Females	2,509.9	249.1	261.3	11.3	65.7	15.1	34.1	12.0	42.7	3,201.2

(a) Includes persons with other post-school qualifications. (b) Includes persons who never attended school. (c) Aged 15 to 20 only.

ADDITIONAL TABLES

The following is a list of additional tables of results from the survey which are available to users on request. These tables show a selection of estimates on an Australia-wide basis. Tables disaggregated by State/Territory and other tables may also be available. Most tables are dissected by sex.

Civilian population aged 15 years and over

	Education attainment and age—
A1	Family status
A2	Birthplace
A3	Labour force status at February 1986
A4	Labour force status at February 1986 and educational institution attended during 1985 (for persons aged 15-25)
	Main field of study (for persons with a degree)—
A5	Family status
A6	Birthplace and age
A7	Labour force status at February 1986 and age
	Main field of study (for persons with a trade; technical or other certificate)—
A8	Birthplace and period of arrival (if born overseas)
A9	Labour force status at February 1986 and age
A10	Labour force status at February 1986 and occupation

Employed persons

	Educational attainment and industry—
A11	Age
A12	Birthplace
A13	Educational institution attended during 1985 (for persons aged 15-25)
	Educational attainment and occupation—
A14	Age
A15	Birthplace
A16	Educational institution attended during 1985 (for persons aged 15-25)
	Main field of study (for persons with a degree)—
A17	Occupation and marital status
A18	Occupation and status of worker
A19	Status of worker and full-time/part-time status in all jobs
	Main field of study (for persons with a trade; technical or other certificate)—
A20	Occupation and age
A21	Occupation and full-time/part-time status in all jobs
A22	Industry and age
A23	Industry and full-time/part-time status in all jobs

Persons who attended an educational institution during 1985 (aged 15-25 only)

	Educational institution attended during 1985 and whether attended full-time or part-time—
A24	Labour force status
A25	Student status last year, age and labour force status
A26	Student status last year, and family status

Persons not in the labour force

A27	Educational attainment and age
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TECHNICAL NOTE

Estimation procedure

The estimates are derived from the population survey by use of a ratio estimation procedure which ensures that the estimates conform to an independently estimated distribution of the population for each capital city and remainder of State by age and sex, rather than to the corresponding distribution within the sample itself.

Reliability of the estimates

2. Since the estimates in this publication are based on information obtained from occupants of a sample of dwellings, they are subject to sampling variability; that is, they may differ from the figures that would have been produced if all dwellings had been included in the survey. One measure of the likely difference is given by the *standard error*, which indicates the extent to which an estimate might have varied by chance because only a sample of dwellings was included. There are about two chances in three that a sample estimate will differ by less than one standard error from the figure that would have been obtained if all dwellings had been included, and about nineteen chances in twenty that the difference will be less than two standard errors. Another measure of the likely difference is the *relative standard error*, which is obtained by expressing the standard error as a percentage of the estimate.

3. Space does not allow for the separate indication of the standard errors of all estimates in this publication. A table of standard errors for general application is given on the following page. Since they are averages based on calculations for a limited number of past surveys over a wide range of labour force characteristics these figures will not give a precise measure of the standard error of a particular estimate but they will provide an indication of its magnitude.

4. An example of the calculation and the use of standard errors in relation to estimates of persons is as follows. From Table 3 the estimated number of persons in the labour force with post-school qualifications is 3,238,900. Since this estimate is between 2,000,000 and 5,000,000 the standard error for Australia will be between 14,200 and 19,100 in the standard error table and can be approximated as 16,200 (rounded to the nearest 100). Therefore there are about two chances in three that the value that would have been produced if all dwellings had

been included in the survey will fall in the range 3,222,700 to 3,255,100 and about nineteen chances in twenty that the value will fall within the range 3,206,500 and 3,271,300. This example is illustrated in the diagram.

5. As can be seen from the standard error table, *the smaller the estimate the higher is the relative standard error*. Very small estimates are thus subject to such high standard errors (relative to the size of the estimate) as to detract seriously from their value for most reasonable uses. In the tables in this publication, estimates less than the lowest levels shown in the standard error table have not been published. Although figures for these small components can in some cases be derived by subtraction, they should not be regarded as reliable.

6. Proportions and percentages formed from the ratio of two estimates are also subject to sampling errors. The size of the error depends on the accuracy of both the numerator and the denominator. The formula for the relative standard error (RSE) of a proportion is given below:

$$RSE(x/y) = \sqrt{[RSE(x)]^2 + [RSE(y)]^2}$$

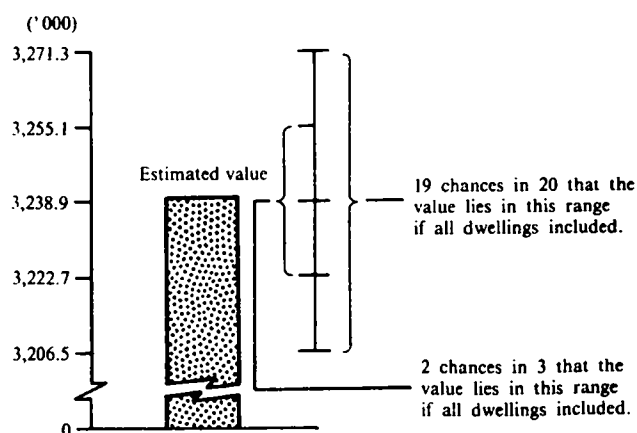
7. Considering the example from paragraph 4 above, the 3,238,900 persons in the labour force with post-school qualifications represent 76.9 per cent of the 4,213,400 persons in the total population who had post-school qualifications. The standard error for 4,213,400 is approximately 17,800 so the relative standard error is 0.4 per cent. The relative standard error for 3,238,900 is 0.5 per cent. Applying the above formula, the relative standard error of the proportion is $\sqrt{(0.5)^2 + (0.4)^2}$ or 0.3 per cent, giving a standard error for the proportion (76.9 per cent) of 0.2 percentage points. Therefore, there are about two chances in three that the proportion of persons with post-school qualifications is between 76.7 per cent and 77.1 per cent and nineteen chances in twenty the proportion is within the range 76.5 per cent to 77.3 per cent.

8. Published figures may also be used to estimate the difference between two survey estimates (of numbers or percentages). Such a figure is itself an estimate and is therefore subject to sampling error. The sampling error of the difference between two estimates depends on their standard errors and the relationship (correlation) between them. An approximate standard error (SE) of the difference between two estimates (x-y) may be calculated by the following formula:

$$SE(x-y) = \sqrt{[SE(x)]^2 + [SE(y)]^2}$$

While this formula will only be exact for differences between separate and uncorrelated characteristics or sub-populations, it is expected to provide a good approximation for all differences likely to be of interest in this publication.

9. The imprecision due to sampling variability, which is measured by the standard error, should not be confused with inaccuracies that may occur because of imperfections in reporting by interviewers and respondents and errors made in the coding and processing of data. Inaccuracies of this kind are referred to as the *non-sampling errors*, and they may occur in any enumeration, whether it be a full count or a sample.



STANDARD ERRORS OF ESTIMATES

Size of estimate (persons)	N.S.W.	Vic.	Qld	S.A.	W.A.	Tas.	N.T.	A.C.T.	Australia	
									Relative standard error (per cent)	
					—number—					
1,500						350				
1,800						380		410		
2,000						400	490	420		
2,500				580	620	440	540	460		
3,000				630	670	470	580	490		
3,500			860	680	720	500	610	520		
4,000			920	720	760	530	650	550		
4,500			970	760	800	560	680	570	1,050	23.9
5,000	1,200	1,250	1,000	790	840	580	710	590	1,150	22.7
6,000	1,350	1,350	1,100	860	900	630	760	630	1,250	20.7
7,000	1,450	1,450	1,200	910	970	670	810	670	1,350	19.2
10,000	1,700	1,700	1,400	1,150	1,100	770	920	750	1,600	16.0
20,000	2,300	2,250	1,900	1,400	1,500	990	1,200	940	2,250	11.1
50,000	3,350	3,300	2,700	1,950	2,100	1,350	1,650	1,200	3,400	6.8
100,000	4,450	4,300	3,550	2,500	2,700	1,650	2,100	1,450	4,550	4.6
200,000	5,900	5,500	4,550	3,150	3,400	2,050		1,700	6,100	3.0
300,000	6,800	6,300	5,200	3,600	3,850				7,100	2.4
500,000	8,300	7,500	6,100	4,200	4,500				8,700	1.7
1,000,000	10,600	9,300	7,600						11,200	1.1
2,000,000	13,400	11,400							14,200	0.7
5,000,000	18,000	14,600							19,100	0.4
10,000,000									23,500	0.2
12,000,000									24,700	0.2
15,000,000									26,300	0.2

